



Course Syllabus of Epidemiology

Faculty: Medicine and health sciences
Department: Health Sciences
Program: Bachelor in Clinical Nutrition and Dietetic

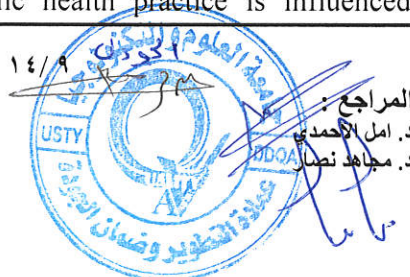
I. General information about the course instructor:							
Name	Dr. Mahdi Al-Krawani	Office Hours(3 Hours Weekly)					
Location & phone number	Sana'a: 777240096	Sat	Sun	Mon	Tue	Wed	Thu
Email	msmahdisaad@gmail.com			√			

II. General information about the course:						
1.	Course Title :	Epidemiology				
2.	Course Code and Number :	BND361				
3.	Credit Hours :	Credit Hours				Total
		Theoretical	Seminar/Tutorial	Practical	Training	
		2	-	1	-	3
4.	Study Level and Semester:	3 rd year, 2 nd semester				
5.	Pre-requisites :	BMD16				
6.	Co-requisites :	None				
7.	Program in which the course is offered:	Bachelor in Clinical Nutrition and Dietetic				
8.	Teaching Language:	English				
9.	Instruction location:	University of Science and Technology, Sana'a ,Yemen				

III. Course Description
The course provide student with basic concept about meaning and function of nutritional epidemiology to identify and study associations between diet and disease in defined populations. A major enterprise of nutritional epidemiology to assess the efficacy of nutrition interventions to develop diet assessment methods that enable public health officials and researchers to monitor dietary intake and other healthy related behaviors of defined populations. Epidemiological methods also explore as are widely applied in public health nutrition, and even practitioners who do not themselves carry out surveys will find that their public health practice is influenced by epidemiological

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د. عبد الله المخلافي

رئيس القسم:
د. عبد الحبيب ردمان



الموصف:
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observations. In this course also we look at the types of studies used in nutritional epidemiology. The course is based on lectures as well as seminars, field visits, case studies design, and problem solving. The students will be evaluated through written exam and report evaluation. Biostatistics course is a prerequisite course.

IV. Course Aims: This course is aimed to:

1. Enable the student to explore the major enterprise of nutritional epidemiology to assess the efficacy of nutrition interventions
2. Provide students with a basic knowledge about the concept of epidemiology, epidemiological studies, natural history of disease and outbreak investigation including diseases association and causation toward health promotion.
3. Learn the students to understand the significant role of epidemiology in disease prevention and control.
4. Improve the skills of the student to distinguish between different types of epidemiological studies for research in nutritional epidemiology

V. Course Intended Learning Outcomes (CILOs) :

1. List strengths and weaknesses of cross-sectional, case control, cohort studies and interventional studies.
2. Identify the distinction between association and causation
3. Outline the processes of outbreak investigation in controlling the epidemics.
4. Understand the basic principles of epidemiology of Communicable and non-communicable diseases
5. Calculate specific rates, ratio and proportions of diseases incidence, prevalence and calculate the risks and specificity tests from samples of relevant data.
6. Draw the different study design showing the time flow.
7. Practice case studies design in nutritional epidemiology.
8. Collect, calculate and interpret the results and report the findings.
9. Respect academic/medical staff and colleagues and patient privacy and participate in public health visiting about epidemiological measures in Yemen.

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المراجع :
د. امل الاجفدي
د. مجاهد نصار

الموصف :
د. مهدي الفرواني

VI. Course Contents

First: Theoretical and analytical Aspect:

No.	Course Topics/Units	Sub-topics	Week due	Contact Hours
1	Introduction to epidemiology and nutritional epidemiology concept	1 st	1	2
2	Uses of descriptive epidemiology	2 nd	1	2
3	Descriptive epidemiology	3 rd	1	2
4	Analytical epidemiology	4 th	1	2
5	Experimental epidemiology	5 th	1	2
6	Causation	6 th	1	2
7	Mid-Exam		7 th	2
8	Field epidemiology	<ul style="list-style-type: none"> ✓ Outbreak investigation ✓ Steps for conducting a field investigation 	8 th	4
9	Survey and surveillance	<ul style="list-style-type: none"> ✓ Purpose ✓ Characteristics ✓ Identifying health problems ✓ Working with data ✓ Evaluation ✓ Notification system 	9 th	2
10	Clinical epidemiology	<ul style="list-style-type: none"> ✓ Definition of normality and abnormality ✓ Screening and diagnosis ✓ Screening definition ✓ Screening types ✓ Screening criteria ✓ Validity and reliability ✓ Evaluating the screening tests 	10 th , 11 th	4
11	Measures	<ul style="list-style-type: none"> ✓ Population at risk ✓ Rates proportions and ratios ✓ Morbidity ✓ Mortality ✓ Association 	12 th	2
12	Dietary assessment (1)	<ul style="list-style-type: none"> ✓ Definition ✓ Goals ✓ Methods 	13 th	2
13	Dietary assessment (2)	<ul style="list-style-type: none"> ✓ Dietary Collection Resources 	14 th	2

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المراجع:
د. امين الاحمدي
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		<ul style="list-style-type: none"> ✓ Data Collection Tools ✓ Food Composition Databases ✓ Diet Analysis Tools 		
14	Chronic diseases epidemiology	<ul style="list-style-type: none"> ✓ Classifications of diseases ✓ Communicable and non-communicable diseases ✓ Heredity 	15 th	2
15	Final Exam		16 th	2
Total number of weeks and hours			16	32

Second: Practical/Tutorial/Clinical Aspects			
No	Practical/Tutorial/Clinical topics	Week due	Contact Hours
1	Case studies design in nutritional epidemiology, Assignment/report/presentation	2 nd -13 th	12
2	Practical exam	14 th	1
Total number of weeks and hours		13	13

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المراجع :
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